

HDAC3 Mouse mAb

CatalogNo: YM0327

| Key Features

Host Species

- Mouse

Reactivity

- Human

Applications

- WB,IF,ELISA

MW

- 49kD (Calculated)

| Recommended Dilution Ratios

WB 1:500-1:2000

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

| Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Monoclonal

| Immunogen Information

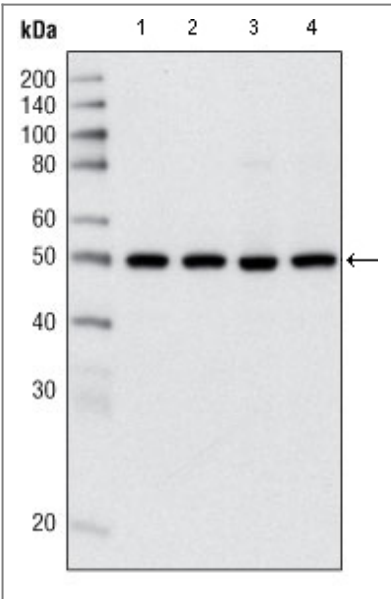
Immunogen Purified recombinant fragment of human HDAC3 (aa224-428) expressed in E. Coli.

Specificity HDAC3 Monoclonal Antibody detects endogenous levels of HDAC3 protein.

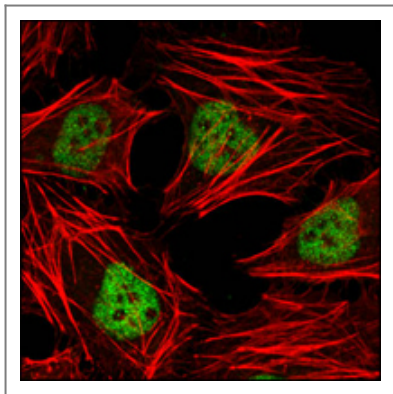
| Target Information

Gene name	HDAC3		
Protein Name	Histone deacetylase 3		
	Organism	Gene ID	UniProt ID
	Human	8841;	O15379;
	Mouse		O88895;
Cellular Localization	Nucleus . Cytoplasm . Cytoplasm, cytosol . Colocalizes with XBP1 and AKT1 in the cytoplasm (PubMed:25190803). Predominantly expressed in the nucleus in the presence of CCAR2 (PubMed:21030595). .		
Tissue specificity	Widely expressed.		
Function	Catalytic activity:Hydrolysis of an N(6)-acetyl-lysine residue of a histone to yield a deacetylated histone.,Function:Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Probably participates in the regulation of transcription through its binding to the zinc-finger transcription factor YY1; increases YY1 repression activity. Required to repress transcription of the POU1F1 transcription factor.,PTM:Sumoylated in vitro.,similarity:Belongs to the histone deacetylase family. Type 1 subfamily.,subunit:Interacts with HDAC7 and HDAC9. Forms a heterologous complex at least with YY1. Interacts with DAXX, HDAC10 and DACH1. Found in a complex with NCOR1 and NCOR2. Component of the N-Cor repressor complex, at least composed of NCOR1, NCOR2, HDAC3, TBL1X, TBL1R, CORO2A and GPS2. Interacts with BCOR, MJD2A/JHDM3A, NRIP1, PRDM6 and SRY. Interacts with BTBD14B. Interacts with GLIS2 (By similarity). Interacts with CBFA2T3.,tissue specificity:Widely expressed.,		

Validation Data



Western Blot analysis using HDAC3 Monoclonal Antibody against HeLa (1), NIH/3T3 (2), C6 (3) and COS (4) cell lysate.



Confocal immunofluorescence analysis of HeLa cells using HDAC3 Monoclonal Antibody (green). Red: Actin filaments have been labeled with DY-554 phalloidin.

Contact information

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Please scan the QR code to access additional product information:
HDAC3 Mouse mAb

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